FIELD ID NO:	

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS-GREENHOUSE TRIALS

A. EQUIPMENT			
INSTRUCTIONS: Complete a separate form for each pic	ece of test substance a	pplication equipment used	d in the trial.
EQUIPMENT USED FOR APPLICATION NUMBER	(S)		
EQUIPMENT IDENTIFIER ¹		fying name or code	
APPLICATION EQUIPMENT TYPE (Check one) WA			
PROPELLANT (Check one) CO2 CO OTHER (Describe)			
TYPE OF APPLICATION (Check one)			
FOLIAR BROADCAST FOLIAR DIRECTED			(SOIL)
OTHER(Describe)			
NUMBER OF PASSES THAT ARE NEEDED TO TRE	AT THE PLOT		_
NUMBER OF NOZZLES OR HOPPER OUTLETS USE	ED		
MESH SIZE USED IN THE STRAINERS		BETWEEN NOZZLES ER OUTLETS	
NOZZLE BRAND/TYPE/SIZE (e.g. T-Jet 8004, even fla	ıt fan)		
TREATED AREA ²			
² Calculated width of nozzle discharge pattern (C For a broadcast application, CWNDP = (# of no nozzles X swath per nozzle. If application is folio sprayed or treated; treated row width may differ narrower than local commercial practices. In the local commercial row width, and an explanation Contact the Study Director if guidance is needed	ozzles X nozzle spacin ar directed enter treat r from actual row widt his circumstance, the a n should be included o	g). For a banded applica ed row width X # of rows th when the actual row wid application rate should be	tion, CWNDP = # of X length of plot dth is wider or calculated using a
DOES AREA USED FOR APPLICATION RATE CALC	CS. = PLOT AREA (fr	rom Parts 5C/5D)? YES_	NO
(For foliar directed and soil directed applications, check 'the actual row width on the research plot. This prompt is IF NO, PLEASE EXPLAIN:	intended to help data	reviewers calculate the ra	
ABOVE DATA ENTERED BY:		DATE	
PART 6 P			Year 2023
Total number of pages in this section at initial p		11141	10ui 2023
COMPLETE IF APPROPRIATE: "THIS IS A TRUE CONTINUE OF THE OPIGINAL IS IN ID. 4 FIELD DATA BOOK NO.	PY OF THE ORIGINAL		

FIELD ID NO:	
IR-4 FIELD	DATA BOOK

COMPLETE IF APPROPRIATE:

PART 6 PAGE	Trial Year 2023	
ABOVE DATA ENTERED BY:	DATE:	
 Nozzle or hopper outlet placement in relation to crop Application pattern in relation to crop Assign each nozzle or hopper outlet a unique number 		
Include the following required items in the sketch or image: 1) Relative location and size of the target crop		
INSTRUCTIONS: Complete a separate form for each piece of test substance applica diagram and/or provide clear photograph or other image of application equipment.	tion equipment used in the trial.	Sketch d
EQUIPMENT USED FOR APPLICATION NUMBER(S)		
B. DIAGRAM OF APPLICATION EQUIPMENT		

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THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO. _____ INITIALS _____ DATE___

FIELD ID NO: _	
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IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS-GREENHOUSE TRIALS

C. DISCHARGE CALIBRATION FOR APPLICATION NUMBER ____

INSTRUCTIONS: Use this form when conducting full (3-run) calibrations or rechecks. If conducting a recheck, please provide calculations to verify that the output is within $\pm -5\%$ of the most recent full calibration.

If you are conducting a					-	ded on the	IR-4 website.
EQUIPMENT IDENTIFII							
DISCHARGE CALIBRA							
LOCATION WHERE TH							
INSTRUMENT USED TO				•			
BRIEFLY DESCRIBE PR	ROCEI	OURE USED TO	CHECK DISCHAR	GE CALIBF	RATION_		
PRESSURE (psi)			UNITS	S (e.g. ml, g	grams)		
Output Run Num	ber	1	2	3			
Nozzle/Hopper	1					Is this a	a recheck?
Outlet Number	2						
Along Boom	3						
(If more than 6 nozzles, use the alternate form	4					No	
Part-6C. Large Boom	5						
provided on the website.)	6					Total	
Total Boom Vol	lume				A		
Mean per nozzle or o					В		
Time (seco					С		
	•				Ave	erage	
Discharge	Kate				Disc	charge Rate*	D
*Indicate whether discharge	rate is c	alculated for: Total	Boom Volume	Mean Nozzle	Volume	*(.	A or B)/C=D
Is the discharge rate of	each r	un within 5% of	f the mean?		YES	_ NO	_ NA
Are individual nozzle o	utputs	within 5% of th	he mean during eac	ch run?	YES	_ NO	_ NA
If this is a recheck, are a	results	within 5% of o	original output?		YES	_ NO	_ NA
ABOVE DATA ENTERE	D BY:					DATE	Ε:
			RT 6 PAGE			Trial	Year 2023
COMPLETE IF APPROPRI	ATE:		UE COPY OF THE O				
THE ORIGINAL IS IN IR-4	FIELD	DATA BOOK NO)	_INITIALS _		DATE	

FIELD ID NO:	
IR-4 FIELD	DATA BOOK

D. SPEED CA	LIBRATION I	FOR APPLIC A	ATION NUMBI	ER(S)			
	NS: Complete a uipment is requ		for additional tir	nes when a comp	lete calibration or o	calibration-	recheck of
EQUIPMENT	IDENTIFIER_						
SPEED CALIF	BRATION DAT	TE	TIME	PERFOR	MED BY	(INI	TIALS)
TERRAIN OF	CALIBRATIO	N TRACK (e.g	g., tilled field)				
LOCATION W	WHERE THE C	ALIBRATION	WAS PERFOR	MED			
BRIEFLY DES	SCRIBE PROC	EDURE USED	FOR SPEED C	ALIBRATION _			
GEAR	RPM		LENGTH OF T	EST TRACK (in	clude units)		
setting used in was tested to d additional runs speed recheck	the speed calib etermine speed s. If this is a re	ration. Indicat (e.g. speed of a check, calculate quired wheneve	e the distance (in application equip e the result is with e r an output rec l	n feet or meters) o oment tested for 10 thin 5% of the ori	Cappropriate, note of the track on whice of the track on whice of the track on whice of the track of the trac	h the applic pts have bee Show all cal	ation equipment en provided for 2 culations. A
RUN#	1	2	3	TOTAL	AVERAGE		Γ OR ORIGINAL RATION TIME
TIME (sec)							
CALCULATIO	ONS:						
IF YES, WERI		ITHIN 5% OF	BRATION? ORIGINAL CA must be in this f		(Check one) YE		NO NO
full speed calib WAS THIS A	oration must be CHECK OF A	conducted, and TARGET SPE	the mean of the	three runs must b	e mean of three runs e within 5% of the (Check one) YE	target speed S	
ABOVE DATA	ENTERED BY	:			<i>1</i>	DATE:	
			PART 6 PAG	E		Trial Yea	ar 2023
COMPLETE IF	APPROPRIATE	: "THIS IS	A TRUE COPY O	F THE ORIGINAL INITIAL		.TE	

FIELD ID NO:		_
IR-4 FIELD	DATA BOOK	

ΡΔΩΤ 6 ΡΔΩΕ	Trial Vear 2023
ABOVE DATA ENTERED BY:	DATE:
PROTOCOL SPECIFIED SPRAY VOLUME (from Part 15, in gallons per acre or Enter "NA" if a spray volume is not applicable.	liters per hectare):
CALCULATIONS:	
PROCEDURE/FORMULA:	
same equipment, and have performed a recheck to confirm the result of the full cali from the application equipment. Briefly describe the procedure, including formula calibration. Show all calculations and units. Equations used in electronic (compute transcribed or printed out and attached here.	s used to determine delivery rate
INSTRUCTIONS: Complete a separate form for each application, unless the same	parameters are used you are using the
E. DELIVERY RATE CALIBRATION FOR APPLICATION NUMBER(S)	
PART 6. APPLICATION RECORDS-GREENHOUSE TRIALS	

COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL"

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FIELD ID NO:	
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F.	VOLUME, MIXING AND DILUTION	N CALCULATIONS FOR APPLICATION NUMBER(S)	
г.	VOLUME, MIMING AND DILUTION	N CALCULATIONS FOR ALL LICATION NUMBER(S)	

INSTRUCTIONS: Complete a separate form for each application, unless there are no changes in multiple applications. Show all calculations, formulas, and results below, and define units of measure. Equations used in electronic (computer software) calculations in this trial must be transcribed or printed out and attached here.

LCULATIONS ENTERED BY:		DATE:
XING (E.g.: "Test substance held ank mix prepared within walking di		
XING (E.g.: "Test substance held ank mix prepared within walking di	l securely in an insulated cooler hand-carr istance of the chemical storage building")	ied during transport to greenhouse site" or
XING (E.g.: "Test substance held ank mix prepared within walking di	securely in an insulated cooler hand-carr istance of the chemical storage building")	ied during transport to greenhouse site" or
XING (E.g.: "Test substance held ank mix prepared within walking di	securely in an insulated cooler hand-carr istance of the chemical storage building") PART 6 PAGE	ied during transport to greenhouse site" or

FIELD ID NO: _____ IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS-GREENHOUSE TRIALS

	TRT Number					
NUMBER OF DAYS SINCE PREVIOUS APPLICATION	TIME OF ADDITIONAL AGITATION					
TEST SUBSTANCE	(if applicable) e.g. "10:00" or "continuous" or "just pri					
BATCH/LOT NUMBER	to application"					
TIME MIXED/BY WHOM ¹						
TIME APPLIED/BY WHOM ¹						
EQUIPMENT IDENTIFIER						
APPLICATION TYPE ³						
(e.g., foliar broadcast, soil directed)	MEASURING EQUIPMENT with INCREMENTS*					
TANK MIX AMOUNTS	MDASOKING BYOTHERIT WITH INCREMENTS					
CARRIER (starting volume of water)						
VOLUME of WATER REMOVED						
from starting volume (if applicable)						
TEST SUBSTANCE (formulated product)						
ADJUVANT						
TOTAL VOLUME OF TANK MIX	*e.g. 1000 mL grad. cylinder/10 mL inc					
NOZZLE DISTANCE from TARGET	ORDER IN WHICH ITEMS WERE ADDED TO SPRAY MIXTURE*					
PSI AT BOOM	W=Water, TS=Test Substanc A=Adjuvant *e.g. 1-W, 2-TS, 3-A, 4-W					
CARRIER SOURCE/TYPE	e.g. 1 w, 2 15, 5 A, 4 w					
CARRIER pH/TEMPERATURE						
EQUIPMENT used to MEASURE pH						
	entered by the person entering the rest of the data on this pag					
itials are acceptable for identification.	at is indicated in Part 6A, then a new 6A must be completed.					
ERE THE TREATED PLANTS MOVED TO	u is maicaiea in 1 ari 0A, men a new 0A masi ve compieiea.					
NOTHER ROOM OR PROTECTED AREA FOR SPRA	YING? YES NO					
YES, IDENTIFY LOCATION:						

FIELD ID NO:

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS-GREENHOUSE TRIALS

TYPE OF SURFACE THAT APPLICATOR WALKED ON DURING APPLICATION
DESCRIPTION OF GROWING MEDIUM TILTH (smooth, firm, packed, cloddy, etc.)
ESTIMATE OF GROWING MEDIUM SURFACE MOISTURE (wet, moist, dry, etc.)

H. ADDITIONAL INFORMATION FROM APPLICATIO	N NUMBER					
APPLICATION DATE (Complete a separate form for each application date)						
PLANT GROWTH & ENVIRONMENTAL DATA AT THE	TIME OF APPLICATION	Enter data in this o	column			
CROP HEIGHT (Measure or estimate crop height, inc	lude units of measurements)					
CROP GROWTH STAGE (e.g. seed, vegetative, bud, b	loom, fruiting, #true leaves)					
CROP VIGOR (e.g.	poor, fair, good, variable)*					
PLANT SURFACE MOISTURE (Check	cone) SATURATED	DAMP DI	RY	NA_		
ESTIMATED % OF GROWING MEDIUM AREA COVI	ERED BY CROP CANOPY					
MEASURED AIR TEMPERATURE (Check F or C	C) (E.g. 75 °F \(\sqrt{ OC}\)	0	F	oC_		
ESTIMATED % OF CLOUD COVER (or indicate belo	w if shade cloth was closed)					

MEASURED RELATIVE HUMIDITY%

SHADE CLOTH

OPEN CLOSED

oF

oC

DEPTH OF MEASUREMENT OF GR. MED. TEMPERATURE (Check INCHES or cm)	INCHES cm
*IF CROP VIGOR IS POOR OR VARIABLE, EXPLAIN:	
ABOVE DATA ENTERED BY:	DATE:
BRIEFLY DESCRIBE PROCEDURE USED TO CLEAN APPLICATION EQUIPMENT AND II	DENTIFY WHO CLEANED IT:
NAME(S) OF PERSON(S) WHO CLEANED EQUIPMENT:	
CLEANING DESCRIPTION ENTERED BY:	

GROWING MEDIUM TEMPERATURE (Check F or C)

FIELD ID NO: _____ IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS-GREENHOUSE TRIALS

PASS NUMBER TIME DIRECTION PASS NUMBER 1 1 1 2 2 2 3 3 3 4 4 4 5 5 5 6 6 6 7 7 8 8 8 8 9 9 9 10 10 11 11 11 11 12 12 12	REATMENT	
1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 10 10 11 11	TIME	
2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 10 10 11 11	THVIL	DIRECTION
3 3 4 4 5 5 6 6 7 7 8 8 9 9 10 10 11 11		
4 4 5 5 6 6 7 7 8 8 9 9 10 10 11 11		
5 5 6 6 7 7 8 8 9 9 10 10 11 11		
6 6 7 7 7 8 8 8 9 9 10 10 11 11		
7 7 8 8 8 9 9 10 10 11 11		
8 8 9 9 10 10 11 11		
9 9 10 10 11 11		
10 10 11 11		
11 11		
12		
12		
TOTAL PASS TIME		
ABOVE DATA ENTERED BY:	DATE:	
PROVIDE A BRIEF NARRATIVE SUMMARY OF THE APPLICATION AND IDENTII		
(E.g. "Test substance was applied to the treated plot in two passes; one pass down each side. Each pass was applied to the potted plants with the boom held vertically so that the s		
If YES, then contact the Study Director as soon as possible.	NO	
APPLICATION WAS MADE BY: NARRATIVE ENTERED BY		

PART 6 PAGE ____

Trial Year 2023

FIELD ID NO:
IR-4 FIELD DATA BOOK
PART 6. APPLICATION RECORDS-GREENHOUSE TRIALS
J. POST APPLICATION RATE CONFIRMATION FOR APPLICATION NUMBER
APPLICATION DATE
CALCULATION OF ACTUAL APPLICATION RATE AND SPRAY VOLUME - Show all calculations and label all units. If a target rate was used for the pre-application calculations, the data from the calibration (average of 3 outputs) must be used for calculating the application rate. Convert this amount to the amount applied per acre (or hectare), and determine deviation from target application in the protocol, rounded to the nearest whole percent.
EXAMPLE FORMULAS: The formulas below may be used to calculate the amount of test substance (TS) applied per acre as required in Part 6I. Other formulas may be used instead; however, it is not sufficient to merely compare the actual pass times to the "practice" pass times. 1) Total Pass Time x Discharge Rate = Volume of Tank Mix applied to Plot 2) Volume of Tank Mix applied to Plot x Amount of TS in Tank Mix 3) Amount of TS applied to Plot x 43,560 sq ft per acre Plot area treated in sq ft 4) Volume of Tank Mix applied to Plot x 1 gallon x 43,560 sq ft per acre Plot area treated in sq ft CERTIFICATION FROM THE PLOT THE PROPERTY AND THE PLOT THE P
% DEVIATION FROM THE PROTOCOL RATE SHOULD BE ROUNDED LIKE THIS: -5% OR THIS: +10% ***********************************
DISCHARGE RATE (ml/sec or g/sec):
ACTUAL AREA TREATED (swath width or treated row or bed width x # of passes x length of plot): Note: Use bed width for plots with multi-row beds.

ACTUAL AREA TREATED (swath width or	treated row or bed width x # of pas	sses x length of plot):
`		Use bed width for plots with multi-row beds.
WAS ACTUAL APPLICATION RATE WITH		
WAS ACTUAL SPRAY VOLUME WITHIN	_ IF NO, <u>CONTACT I</u> THE PROTOCOL RANGE?	he Study Director immediately.
		he Study Director immediately.
ABOVE DATA ENTERED BY:		DATE:
P	PART 6 PAGE	Trial Year 2023

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IR-4 FIELD	DATA BOOK

COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL"

THE ORIGINAL IS IN FIELD DATA BOOK NO. ______ INITIALS _____ DATE____

K. POST TREATMENT RECORDS FOR APPLICATION NUMBER	
APPLICATION DATE	
Was There Any Visible Phytotoxicity? (Check one) YES NO	
If YES, fill in the box below* (or 6P if required by the protocol) and contact the Study Provide a detailed description and if possible email pictures.	Director.
Is a phytotoxicity rating required in the protocol? (Check one) YES NO	
If YES, fill in the box below* (or 6P if required by the protocol).	
Date Crop Was Observed: Initials/date:	
*Alternatively, a separate sheet with a description of the phytotoxicity may be inserted	at the back of Part 6.
DESCRIPTION OF PHYTOTOXICITY SYMPTOMS:	
PHYTOTOXICITY DESCRIBED I	BY: (Initials/date)
DATE STUDY DIRECTOR WAS CONTACTED: CONTACTED	BY: (Initials/date)
applications were made prior to the first irrigation. The irrigation data entered below sincluded in Part 9 <u>unless otherwise indicated on this page</u> . If irrigation is required by	y the protocol to incorporate the test
included in Part 9 <u>unless otherwise indicated on this page</u> . If irrigation is required by substance, or if the test substance is applied by irrigation, then that event should I "NONE BEFORE HARVEST" or "NONE BEFORE SAMPLING" may be entered	y the protocol to incorporate the test be recorded below.
included in Part 9 <u>unless otherwise indicated on this page</u> . If irrigation is required by substance, or if the test substance is applied by irrigation, then that event should be	y the protocol to incorporate the test be recorded below.
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FIEL	D	ID	Ν	O:				_

IR-4 FIELD DATA BOOK PART 6. APPLICATION RECORDS

L. DIFFERENTIATION	OF MULTIPLE	TRIALS CONDUC	TED IN CLOSE	PROXIMITY*

Are you conducting more than one trial in this study? YES____ NO___

Is another field research director in this study conducting a trial within 30 kilometers (18.6 miles) of your trial(s)? YES___ NO___

If "NO" is checked twice, then no other input is needed except for signing and dating at the bottom of each page. If "YES" is checked at least once, then an independently prepared tank-mix must be used in each trial, except in studies in which this is not applicable such as studies with granular formulations.

In order to differentiate these trials, select one option from the list below.

If $\underline{3}$ or more trials in this study cannot be differentiated by the same options, then you should check all options that have been used, and explain below which options are differentiating between which trials.

If different crop varieties are being used as a differentiation option, then enter below information that explains why these varieties were chosen. Examples: Variety A produces large fruit, whereas Variety B produces small fruit. Variety A produces fruit with a smooth skin, whereas Variety B produces fruit with a rough skin. Variety A has heavy foliage that shields the commodity, whereas Variety B has light foliage that exposes the commodity more.

If options are used that are listed in the protocol but are not listed in the table below, then enter descriptions below.

*Trials conducted in different calendar years are exempt from these requirements. (If separate trials by the same person or within 30 km are conducted in late fall/early winter, then the differentiation options should be used to reduce the possibility of data rejection by a regulatory agency.)

Check the options used to differentiate the trials that you are conducting in this study:

Option	 Description
Α	Trial sites must be separated by at least 30 km (18.6 miles) [measured as straight line distance]
В	Planting date (for annual crops) or first application date in each trial is separated by at least 30 days
С	Different crop variety (different size or shape at maturity, rough vs. smooth surface, different amount of foliage shielding the commodity, different rate of growth)—confirm with Study Director if this option will be chosen

Trial IDs of other trials in this study to which these options are being applied:

Enter below any additional information that will improve the understanding	g of the options that have been chosen:
ABOVE DATA ENTERED BY:	DATE:
PART 6 PAGE	Trial Year 2023
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL" THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO INITIALS	

FIELD ID NO:	
IR-4 FIELD	DATA BOOK

M. APPLICATION EQUIPMENT MAINTENANCE AND REPAIR LOG

INSTRUCTIONS: Complete this form or attach true copies of maintenance logs. Provide dates and a brief description of maintenance and repair work completed on the application equipment relevant to this trial. Date and initial all entries.

APPLICATION EQUIPMENT IDENTIFIER										
EQUIPMENT USED FOR APPLICATION NUMBERS										
INITIALS/DATE										
Initials and Date	Was Maintenance or Repair routine? (Check one) Yes No¹		SOP#	Description						
	100	110	50111	Description						
					_					
¹ If non-routine,	include in	the descrip	otion the	nature of the defect, when discovered,	and the action taken.					
PART 6 PAGE Trial Year 2023										
COMPLETE IF APPROI				COPY OF THE ORIGINAL" INITIALS	DATE					